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## INTERNATIONAL SEARCH REPORT

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7    B64F1/20    F21V17/10    F21V19/04		International Application No <b>PCT/EP2004/006623</b>
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7    F21V    B64F    F21S    F21P		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) <b>EPO-Internal</b>		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 920 468 A (NARITA YUICHI) 24 April 1990 (1990-04-24) the whole document	1-7
Y	US 5 584 574 A (HADDAD ERIC) 17 December 1996 (1996-12-17) abstract column 3, line 6 - line 47 figures 1-3	1-7
A	US 1 871 205 A (OSCAR WERNER) 9 August 1932 (1932-08-09) page 1, line 37 - page 2, line 74 figure 1	1,3,7
-/-		
<div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>		
<div style="display: flex;"> <div style="flex: 1;"> <p>* Special categories of cited documents:</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="flex: 1;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*Z* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search  <b>5 October 2004</b>	Date of mailing of the international search report  <b>15/10/2004</b>	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. S1 651 epo nl, Fax (+31-70) 340-3016	Authorized officer  <b>Cosnard, D</b>	

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### C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 991 905 A (NICPON JOHN E) 16 November 1976 (1976-11-16) figures 1,4-7 abstract	1-6
A	US 5 988 833 A (GIESE ROBERT D ET AL) 23 November 1999 (1999-11-23) abstract figures 1,8,9,10-,11	1
A	US 4 722 032 A (KULKA FREDERICK C) 26 January 1988 (1988-01-26) abstract figure 1	1

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4920468	A	24-04-1990	JP 1121211 U KR 9305313 Y1	17-08-1989 13-08-1993
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US 4722032	A	26-01-1988	NONE	